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7	40	(((creat$4 or generat$4) near ((data adj dictionary) or catalog$5 or metadat or schema)) with automat$5)	USPAT	2004/03/30 09:15
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13	16	(((((creat$4 or generat$4) near ((data adj dictionary) or catalog$5 or metadat or schema))) same relational adj database) and (707/$.ccls. or 717/$.ccls.)) and (XML)	USPAT	2004/03/30 09:26
14	12	((((((creat$4 or generat$4) near ((data adj dictionary) or catalog$5 or metadat or schema))) same relational adj database) and (707/$.ccls. or 717/$.ccls.)) and (XML)) and (automat$6 same (relational adj database))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/30 09:23
16	71	(((creat$4 or generat$4) near ((data adj dictionary) or catalog$5 or metadat or schema or XML or DTD))) same relational adj database	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/30 09:35
17	39	(((creat$4 or generat$4) near ((data adj dictionary) or catalog$5 or metadat or schema or XML or DTD))) and (XML$2 or DTD$2) with schema	USPAT	2004/03/30 09:26
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15	691	((creat$4 or generat$4) near ((data adj dictionary) or catalog$5 or metadat or schema or XML or DTD))	USPAT	2004/03/30 09:37
19	26	((((creat$4 or generat$4) near ((data adj dictionary) or catalog$5 or metadat or schema or XML or DTD))) and (XML$2 or DTD$2) with schema) and ((relational adj database) or DB2 or (database near table))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/30 09:37

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4	30	(((creat$4 or generat$4 or build$3 or implement$5 or construct$6) near2 ((data adj dictionary) or catalog$5 or metadat or schema or XML or DTD)) and (707/$.ccls. or 717/$.ccls. or 715/$.ccls. or 709/$.ccls.)) and (relational or DB2) near9 (XML or DTD)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/30 10:38

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Sushant Jain , Ratul Mahajan , Dan Suciu
Proceedings of the eleventh international conference on World Wide Web May 2002

> We present an algorithm for translating XSLT programs into SQL. Our context is that of virtual XML publishing, in which a single XML view is defined from a relational database, and subsequently queried with XSLT programs. Each XSLT program is translated into a single SQL query and run entirely in the database engine. Our translation works for a large fragment of XSLT, which we define, that includes descendant/ancestor axis, recursive templates, modes, parameters, and aggregates. We put considera ...

2 Design and development of data-intensive web sites: The Araneus   **84%**
approach
Paolo Merialdo , Paolo Atzeni , Giansalvatore Mecca
ACM Transactions on Internet Technology (TOIT) February 2003
Volume 3 Issue 1

> Data-intensive Web sites are large sites based on a back-end database, with a fairly complex hypertext structure. The paper develops two main contributions: (a) a specific design methodology for data-intensive Web sites, composed of a set of steps and design transformations that lead from a conceptual specification of the domain of interest to the actual implementation of the site; (b) a tool called Homer, conceived to support the site design and implementation process, by allowing the ...

3 Contributed articles: Resource description framework: metadata and its   **84%**

applications
K. Selçuk Candan , Huan Liu , Reshma Suvarna
ACM SIGKDD Explorations Newsletter July 2001
Volume 3 Issue 1
> Universality, the property of the Web that makes it the largest data and information source in the world, is also the property behind the lack of a uniform organization scheme that would allow easy access to data and information. A semantic web, wherein different applications and Web sites can exchange information and hence exploit Web data and information to their full potential, requires the information about Web resources to be represented in a detailed and structured manner. Resource Descrip ...

4 Information systems: User interface code generation for EJB-based data   77%
models using intermediate form representations
Branko Milosavljević , Milan Vidaković , Srdjan Komazec , Gordana Milosavljević
Proceedings of the 2nd international conference on Principles and practice of programming in Java June 2003
> The use of J2EE platform enables data model development based on EJB components. Data modeling concepts of EJB technology, although resembling those of relational databases, are different and need new methods for automated user interface code generation. This paper presents a method for user interface code generation based on intermediate form representations that can be used to build equivalent user interfaces in multiple environments like standalone GUI applications, web, or wireless devices. ...

5 Maintenance and workload: Using AutoMed metadata in data   77%
warehousing environments
Hao Fan , Alexandra Poulovassilis
Proceedings of the 6th ACM international workshop on Data warehousing and OLAP November 2003
> What kind of metadata can be used for expressing the multiplicity of data models and the data transformation and integration processes in data warehousing environments? How can this metadata be further used for supporting other data warehouse activities? We examine how these questions are addressed by AutoMed, a system for expressing data transformation and integration processes in heterogeneous database environments.

6 Applications of Java programming: Automatic code generation for   77%
database-oriented web applications
Branko Milosavljević , Milan Vidaković , Zora Konjović
Proceedings of the inaugural conference on the Principles and Practice of programming, 2002 and Proceedings of the second workshop on Intermediate representation engineering for virtual machines, 2002 June 2002
> The paper presents an architecture for database-oriented web applications. Then it introduces concepts which form a foundation for a code generation tool that supports the software construction process in the web application domain. The tool follows simple rules about mapping JavaBean components to the database schema and generates components, as well as a set of standardized JSP pages. The mapping is specified as an instance of an XML Schema document presented here. Efficiency of this tool is a ...

7 Ontology-supported and ontology-driven conceptual navigation on the   77%
World Wide Web

Michel Crampes , Sylvie Ranwez
Proceedings of the eleventh ACM on Hypertext and hypermedia May 2000

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2 **Cost-driven storage schema selection for XML**
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39 **A SOAP-oriented component-based framework supporting device-independent multimedia Web services**
Jia Zhang; Jen-Yao Chung;
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Powell, R.; Roffman, G.;

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[Abstract]   [PDF Full-Text (472 KB)] · **IEEE CNF**

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42 Mapping rules to convert from ODL to XML-SCHEMA
Afonso de Sousa, A.; Luis Pereira, J.; Alvaro Carvalho, J.;
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43 Concepts of the MUSITECH infrastructure for Internet-based intera musical applications
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45 Open data management solutions for problem solving environmen application of distributed authoring and versioning to the Extensible Computational Chemistry Environment
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46 **Object-Oriented mediator queries to XML data**
Lin, H.; Risch, T.; Katchaounov, T.;
Web Information Systems Engineering, 2000. Proceedings of the First Interna
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47 **XML Schema Directory: a data structure for XML data processing**
Kotsakis, E.; Bohm, K.;
Web Information Systems Engineering, 2000. Proceedings of the First Interna
Conference on , Volume: 1 , 19-21 June 2000
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48 **Adaptive customizable browsing through semistructured cardiolog hypermedia data**
Ghedira, C.; Maret, P.; Fayn, J.; Rubel, P.;
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49 **Identifying result subdocuments of XML search conditions**
Kinutani, H.; Yoshikawa, M.; Uemura, S.;
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, 13-16 Nov. 2000
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50 **An indexing model for structured documents to support queries on content, structure and attributes**
Tuong Dao;
Research and Technology Advances in Digital Libraries, 1998. ADL 98. Procee
IEEE International Forum on , 22-24 April 1998
Pages:88 - 97

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1 Research sessions 2 and 3: information processing on WWW and   99%
XML: A normal form for XML documents
Marcelo Arenas , Leonid Libkin
Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART
symposium on Principles of database systems June 2002
>   This paper takes a first step towards the design and normalization
>   theory for XML documents. We show that, like relational
>   databases, XML documents may contain redundant information,
>   and may be prone to update anomalies. Furthermore, such
>   problems are caused by certain functional dependencies among
>   paths in the document. Our goal is to find a way of converting an
>   arbitrary DTD into a well-designed one, that avoids these
>   problems. We first introduce the concept of a functional
>   dependency for XML, ...

2 Cross-modal interaction using XWeb   99%
Dan R. Olsen , Sean Jefferies , Travis Nielsen , William Moyes , Paul
Fredrickson
Proceedings of the 13th annual ACM symposium on User interface
software and technology November 2000

3 Back matter   99%

ACM SIGSOFT Software Engineering Notes March 2003
Volume 28 Issue 2

4 GIS and the internet: Analysis of different approaches for   99%
storing GML documents
J. E. Córcoles , P. González
Proceedings of the tenth ACM international symposium on Advances
in geographic information systems November 2002
> The fact that GML is an XML encoding allows it to be queried. In
> order to query a GML document we have designed a query
> language over GML/XML enriched with spatial operators. This
> query language has an underlying data model and algebra that
> supplies the semantics of the query language. In order to use this
> query language, it is necessary to find an implementation that
> allows us to exploit all its features, storing GML documents
> efficiently. The general aim of this paper is to study the behaviour
> ...

5 XML schemas: integration and translation: NeT & CoT: 99%
translating relational schemas to XML schemas using semantic
constraints
Dongwon Lee , Murali Mani , Frank Chiu , Wesley W. Chu
Proceedings of the eleventh international conference on Information
and knowledge management November 2002
> Two algorithms, called NeT and CoT, to translate relational
> schemas to XML schemas using various semantic constraints are
> presented. The XML schema representation we use is a
> language-independent formalism named XSchema, that is both
> precise and concise. A given XSchema can be mapped to a
> schema in any of the existing XML schema language proposals.
> Our proposed algorithms have the following characteristics: (1)
> NeT derives a nested structure from a flat relational model by
> repeatedly applying th ...

6 Research sessions: XML II: Holistic twig joins: optimal XML   99%
pattern matching
Nicolas Bruno , Nick Koudas , Divesh Srivastava
Proceedings of the 2002 ACM SIGMOD international conference on
Management of data June 2002
> XML employs a tree-structured data model, and, naturally, XML
> queries specify patterns of selection predicates on multiple
> elements related by a tree structure. Finding all occurrences of
> such a twig pattern in an XML database is a core operation for
> XML query processing. Prior work has typically decomposed the

twig pattern into binary structural (parent-child and ancestor-descendant) relationships, and twig matching is achieved by: (i) using structural join algorithms to match the binary relati ...

7 Research sessions: XML I: Storing and querying ordered XML　　99%
using a relational database system
Igor Tatarinov , Stratis D. Viglas , Kevin Beyer , Jayavel Shanmugasundaram , Eugene Shekita , Chun Zhang
Proceedings of the 2002 ACM SIGMOD international conference on Management of data June 2002

> XML is quickly becoming the *de facto* standard for data exchange over the Internet. This is creating a new set of data management requirements involving XML, such as the need to store and query XML documents. Researchers have proposed using relational database systems to satisfy these requirements by devising ways to "shred" XML documents into relations, and translate XML queries into SQL queries over these relations. However, a key issue with such an approach, which has largely been ignor ...

8 Path materialization revisited: an efficient storage model for　　99%
XML data
Haifeng Jiang , Hongjun Lu , Wei Wang , Jeffrey Xu Yu
Australian Computer Science Communications , Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5 January 2002
Volume 24 Issue 2

> XML is emerging as a new major standard for representing data on the world wide web. Several XML storage models have been proposed to store XML data in different database management systems. The unique feature of model-mapping-based approaches is that no DTD information is required for XML data storage. In this paper, we present a new model-mapping-based storage model, called XParent. Unlike the existing work on model-mapping-based approaches that emphasized on converting XML documents to/from d ...

9 Web Information Management: A performance evaluation of　　99%
storing XML data in relational database management systems
Latifur Khan , Yan Rao
Proceeding of the third international workshop on Web information and data management November 2001

> XML is an emerging standard for the representation and exchange of Internet data. Along with document type definition (DTD), XML permits the execution of a collection of queries, using XPath to

identify data in XML documents. In this paper we examine how XML data can be stored and queried using a standard relational database management system (RDBMS). For this, we propose a technique for automatic mapping from an XML document to relations within the RDBMS. We demonstrate that our novel approach ...

10 Semistructured Data: XOO7: applying OO7 benchmark to XML   99%
query processing tool
Ying Guang Li , Stéphane Bressan , Gillian Dobbie , Zoé Lacroix , Mong Li Lee , Ullas Nambiar , Bimlesh Wadhwa
Proceedings of the tenth international conference on Information and knowledge management October 2001

> If XML is to play the critical role of the lingua franca for Internet data interchange that many predict, it is necessary to start designing and adopting benchmarks allowing the comparative performance analysis of the tools being developed and proposed. The effectiveness of existing XML query languages has been studied by many, with a focus on the comparison of linguistic features, implicitly reflecting the fact that most XML tools exist only on paper. In this paper, with a focus on efficiency a ...

11 XRel: a path-based approach to storage and retrieval of XML   99%
documents using relational databases
ACM Transactions on Internet Technology (TOIT) August 2001
Volume 1 Issue 1

> This article describes XRel, a novel approach for storage and retrieval of XML documents using relational databases. In this approach, an XML document is decomposed into nodes on the basis of its tree structure and stored in relational tables according to the node type, with path information from the root to each node. XRel enables us to store XML documents using a fixed relational schema without any information about DTDs and also to utilize indices such as the B+

12 Highly personalized information delivery to mobile clients   99%
Bahattin Ozen , Ozgur Kilic , Mehmet Altinel , Asuman Dogac
Second ACM international workshop on Data engineering for wireless and mobile access May 2001

The inherent limitations of mobile devices necessitate information to be delivered to mobile clients to be highly personalized according to their profiles. This information may be coming from a

variety of resources like Web servers, company intranets, email servers. A critical issue for such systems is scalability, that is, the performance of the system should be in acceptable limits when the number of users increases dramatically. Another important issue is being able to express highly perso

...

13 Report on second international workshop on advanced issues of 99%
E-commerce and Web-based information systems
Kun-Lung Wu , Philip S. Yu
ACM SIGMOD Record September 2000
Volume 29 Issue 3
> *The Second International Workshop on Advanced Issues of E-Commerce and Web-Based Information Systems* (WECWIS 2000) was held at the Crowne Plaza San Jose/Silicon Valley in Milpitas, California on June 8-9, 2000. The purpose of this workshop was to bring together leading practitioners, developers and researchers to explore the challenging technical issues and find feasible solutions for advancing the current state of the art in e-commerce and web-based information systems. In particular, th
> ...

14 Data mining and the Web: past, present and future 99%
Minos N. Garofalakis , Rajeev Rastogi , S. Seshadri , Kyuseok Shim
Proceedings of the second international workshop on Web information and data management November 1999

15 Component-based e-commerce: assessment of current practices 99%
and future directions
Martin Bichler , Arie Segev , J. Leon Zhao
ACM SIGMOD Record December 1998
Volume 27 Issue 4
> Component-based e-commerce technology is a recent trend towards resolving the e-commerce challenge at both system and application levels. Instead of delivering a system as a prepacked monolith system containing any conceivable feature, component-based systems consist of a lightweight kernel to which new features can be added in the form of components. In order to identify the central problems in component-based e-commerce and ways to deal with them, we investigate prototype ...

16 Answering queries using views: A survey   98%

Alon Y. Halevy

The VLDB Journal — The International Journal on Very Large
Data Bases December 2001
Volume 10 Issue 4

> The problem of answering queries using views is to find efficient
> methods of answering a query using a set of previously defined
> materialized views over the database, rather than accessing the
> database relations. The problem has recently received significant
> attention because of its relevance to a wide variety of data
> management problems. In query optimization, finding a rewriting
> of a query using a set of materialized views can yield a more
> efficient query execution plan. To support the separat ...

17 Efficiently publishing relational data as XML documents   98%

Jayavel Shanmugasundaram , Eugene Shekita , Rimon Barr , Michael
Carey , Bruce Lindsay , Hamid Pirahesh , Berthold Reinwald
The VLDB Journal — The International Journal on Very Large
Data Bases September 2001
Volume 10 Issue 2-3

> XML is rapidly emerging as a standard for exchanging business
> data on the World Wide Web. For the foreseeable future,
> however, most business data will continue to be stored in
> relational database systems. Consequently, if XML is to fulfill its
> potential, some mechanism is needed to publish relational data as
> XML documents. Towards that goal, one of the major challenges
> is finding a way to efficiently structure and tag data from one or
> more tables as a hierarchical XML document. Different alterna ...

18 An XML query engine for network-bound data   98%

Zachary G. Ives , A. Y. Halevy , D. S. Weld
The VLDB Journal — The International Journal on Very Large
Data Bases December 2002
Volume 11 Issue 4

> XML has become the lingua franca for data exchange and
> integration across administrative and enterprise boundaries.
> Nearly all data providers are adding XML import or export
> capabilities, and standard XML Schemas and DTDs are being
> promoted for all types of data sharing. The ubiquity of XML has
> removed one of the major obstacles to integrating data from
> widely disparate sources - namely, the heterogeneity of data
> formats. However, general-purpose integration of data across the
> wide are a also re ...

19 Efficient schemes for managing multiversionXML documents   98%

S.-Y. Chien , V. J. Tsotras , C. Zaniolo
The VLDB Journal — The International Journal on Very Large Data Bases December 2002
Volume 11 Issue 4

Multiversion support for XML documents is needed in many critical applications, such as software configuration control, cooperative authoring, web information warehouses, and ”e-permanence” of web documents. In this paper, we introduce efficient and robust techniques for: (i) storing and retrieving; (ii) viewing and exchanging; and (iii) querying multiversion XML documents. We first discuss the limitations of traditional version control methods, such as RCS and SCCS, and then propose ...

20 Anatomy of a native XML base management system   98%
T. Fiebig , S. Helmer , C.-C. Kanne , G. Moerkotte , J. Neumann , R. Schiele , T. Westmann
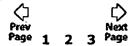The VLDB Journal — The International Journal on Very Large Data Bases December 2002
Volume 11 Issue 4

Several alternatives to manage large XML document collections exist, ranging from file systems over relational or other database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a database management system designed from scratch for storing and processing XML data. Contrary to the common belief that management of XML data is just another application for traditional databases like relational systems, we illustrate how almost every component in a ...

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